

## **AMENDMENTS TO THE ABSTRACT:**

Please amend the Abstract to read as follows:

~~Disclosed is a~~  $\Delta$  method for correcting a nonlinearity error in a two-frequency laser interferometer which measures the phase angle using  $90^\circ$  phase mixing technique and a method for measuring a phase angle by ~~using the same.~~ The phase angle correcting method includes the steps of calculating ellipse parameters, such as amplitudes, offsets and a phase difference of two sine and cosine output signals from ~~the~~ nonlinearity error correcting electronics; calculating an adjusting voltages for correcting offsets, amplitudes and a phase of the output signals; conducting a correction wherein offsets of output signals become zero, amplitudes are same, and a phase difference beyond  $90^\circ$  between the output signals becomes zero; and applying the output signals whose offsets, amplitudes and phase are corrected to Equation ( $\theta = \arctan(I_y'/I_x')$ ) to calculate the phase angle. Therefore, ~~the present invention has an advantage of drastically improving accuracy in the displacement measurement using the two-frequency laser interferometer by correcting the offsets, the amplitudes, the phases, or the likes with respect to the output signals of the  $90^\circ$  phase mixer and thus eliminating the periodic nonlinearity error generated in the two-frequency laser interferometer.~~